

# ANNUAL REPORT FOR 2006



**Wetland Site IV  
Wayne County  
TIP No. R-1030BB**



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## **SUMMARY**

Wetland Site IV is located in Wayne County on the US 117 Bypass. The site was designed as partial mitigation for wetland impacts associated with roadway project R-1030BB.

The mitigation encompasses approximately 0.24 acres of wetland restoration. The restoration effort involved the removal of an abandoned roadway and monitoring the area to ensure that it achieves 80% aerial coverage of native vegetation. No hydrologic monitoring is required for this project.

After the second year of monitoring, Wetland Site IV shows by visual observation that the site has achieved 80% aerial coverage of native vegetation.

NCDOT recommends to discontinue vegetation monitoring.

## **1.0 INTRODUCTION**

### **1.1 Project Description**

Wetland Site IV is located at Station 246+00 on the US 117 Bypass in Wayne County (Figure 1). The site consists of approximately 0.24 acres of mitigation for wetland impacts associated with project R-1030BB.

### **1.2 Purpose**

In order for a mitigation site to be considered successful, a site must meet vegetation success criteria. This report details the vegetation monitoring in 2006 at Wetland Site IV. Hydrologic monitoring was not required for the site.

### **1.3 Project History**

November 2005	Year 1 Monitoring
August 2006	Year 2 Monitoring

## **2.0 VEGETATION: WETLAND SITE IV (YEAR 2 MONITORING)**

### **2.1 Success Criteria**

Success Criteria states that the area where the abandoned roadway was removed must achieve 80% aerial coverage of native vegetation within one year of the date the fill material is removed. If not, this area must be planted with a mixture of species deemed appropriate by the Corps of Engineers.

### **2.2 Description of Species**

*Fraxinus pennsylvanica*, Green Ash

*Betula nigra*, River Birch

*Quercus michauxii*, Swamp Chestnut Oak

### **2.3 Results of Vegetation Monitoring**

The area where the abandoned roadway was removed was planted with Green Ash, River Birch, and Swamp Chestnut Oak in January 2006. The 2006 vegetation monitoring revealed that the planted vegetation was surviving.

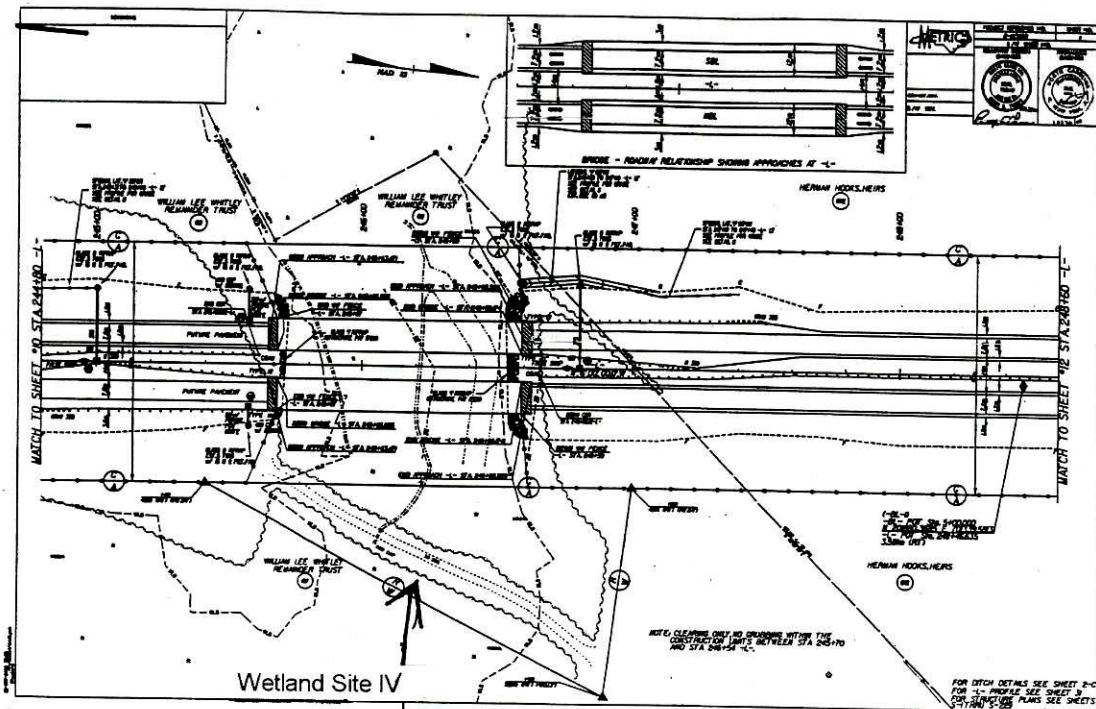
**Site Notes:** Other species noted include: tulip poplar, willow oak, sweetgum, fennel, jewelweed, *Juncus* sp., goldenrod, *Sagittaria* sp., alder, dogwood, red maple, black willow, cattail, woolgrass, and various grasses.

### **2.4 Conclusions**

There were approximately 0.24 acres of wetland restoration constructed on site. There were no plots established on the site. The wetland restoration area was planted in January 2006. By visual observation Wetland Site IV shows that the site has achieved 80% aerial coverage of native vegetation.

## **3.0 Overall Conclusions and Recommendations**

NCDOT recommends to discontinue monitoring at Wetland Site IV on R-1030BB.



VICINITY MAP  
 FIGURE 1  
 R-1030BB  
 WAYNE COUNTY

**APPENDIX A**

**SITE PHOTOS**



# Wetland Site IV



Photo 1